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[54] **BIOREACTOR PROCESS FOR CONTINUOUS REMOVAL OF ORGANIC TOXICANTS AND OTHER OLEOPHILC SOLUTES FROM AN AQUEOUS PROCESS STREAM**

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[58] **Field of Search** 210/610, 611, 614, 615, 210/618, 631, 638, 645, 648-654, 908, 909; 435/182, 252.3, 252.8, 267, 271, 284

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[57] **ABSTRACT**

A hollow fiber membrane bioreactor process for continuous selective removal of organic toxicants or other oleophilic solutes present in an aqueous process stream wherein low concentration levels of said toxicant are removed from the aqueous process stream by being extracted and concentrated by the permeably selective hollow fiber membrane and then provided to a microorganism for metabolization into a water soluble metabolite. The water soluble metabolite is prevented from reentering the aqueous process stream and removed from the bioreactor in the aqueous nutrient effluent stream.

27 Claims, 2 Drawing Sheets